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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/536,512	05/25/2005	Jac-Hyun Kim	17172-006US1 OPP 6483 050737 U	
26161 7590 09/05/2007 FISH & RICHARDSON PC		EXAMINER		
P.O. BOX 1022			LEE, SIN J	
MINNEAPOLI	MINNEAPOLIS, MN 55440-1022		PAPER NUMBER	
			1752	
			MAIL DATE	DELIVERY MODE
			09/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)			
		10/536,512	KIM ET AL.			
		Examiner	Art Unit			
		Sin J. Lee	1752			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on 25 M	a <u>y 2005</u> .				
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition	on of Claims					
4) Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 1-3 and 6-15 is/are rejected.  7) Claim(s) 4 and 5 is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
<ul> <li>9) The specification is objected to by the Examiner.</li> <li>10) The drawing(s) filed on 25 May 2005 is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>						
Priority u	nder 35 U.S.C. § 119	,				
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
2) Notice 3) Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) 'No(s)/Mail Date 5/25/05, 11/20/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te			

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-3 and 6-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Baek et al (KR 2001-0018906A and its English abstract).

Baek teaches (see English abstract) anti-reflection composition containing a polymer of formula 1 (which is shown on the abstract) as a hardening agent and a polyvinyl phenol as a light-absorbing agent (this compound also teaches present adhesivity enhancer). Baek also teaches the use of a thermal acid generator (see pg.4, line 6 of Korean document). According to PTO's on-site English translation of the Korean document, in Example 10, Baek applies his anti-reflection composition onto a silicon wafer and heat-treat the wafer at 205oC for 2 minutes. After applying a photoresist onto the anti-reflective coating, the photoresist film is exposed to ArF radiation, baked again at 110oC for 90 seconds and then developed to obtain a pattern. Baek's invention is used in manufacturing semiconductor devices (see under the summary section on pg.1 of Korean document). Thus, Baek teaches present invention of claims 1-3 and 6-15 (present claim 1 does not require that the light absorbing agent and the adhesivity enhancer of Formula 1 have to be two separate components).

## Allowable Subject Matter

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3. Claims 4 and 5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Back does not teach present light absorbing

agent of Chemical Formula 3 or present thermal acid generator of Chemical Formula 4.

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sin J. Lee whose telephone number is 571-272-1333.

The examiner can normally be reached on Monday-Friday from 9:00 am EST to 5:30

pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly, can be reached on 571-272-1526. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

S- J. L.

S. Lee

September 4, 2007

SIN LEE PRIMARY EXAMINE

Sin J. Len

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